



CLARK COUNTY DEPARTMENT OF BUILDING

Field Inspection Guideline



SUBJECT: Pre-Tensioned Masonry Screen Walls Using Direct Tension Indicators			FIG-B-018
Effective Date: March 01, 2010	Revised: New	Approved By: KTM/BAT	
Code Chapter: Chapter 21, ACI 530			Page 1 of 2

Interpretation:

Masonry reference standard ACI 530-05 permits the use of tension rods for the design and construction of masonry walls. The pre-tension masonry wall is an engineered system, therefore, approved plans shall be provided at every inspection.

Field Application:

When Plans Examination does not specify special inspection for pre-tensioned masonry screen walls utilizing direct tension indicators (DTI) washers, the following inspection procedure shall be used.

Footing inspection:

- The footing shall be inspected for size, shape, and reinforcement requirements.

Pre-grout inspection:

- The tension rod size, location, and spacing shall be per approved plans.
- The placement of the horizontal joint reinforcement is per approved plans.
- A visual inspection of the DTI washer is performed. The washer is installed per the approved detail(s) and the applied tension deformed the washer into a flat condition.
- If vertical rebar is located in a grouted cell, the following will apply:
 - The vertical rebar shall be installed in the footing. The rebar shall be a part of the footing inspection.
 - The vertical rebar shall be installed in the same cell with the rebar from the footing and extend up to the bond beam.
 - The rebar shall be inspected before placement of any grout.
 - The grout space width shall be a minimum of 2 inches for maximum grout pour height of 5 feet (ACI 530-05, Section 1.16.1).

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- When tension rods are grouted or epoxyed into an existing retaining wall, the grouting does not require special inspection or inspection before the wall is erected to the design height, unless specifically noted on the approved plans.

Final inspection:

- Verification of completed wall with cap blocks in place